MRMICH, Stefan; TABENSKI, Zbigniew

Pres skin transplantation in the treatment of large variouse leg ulcers. Polski presgl. chir. 26 no.9:825-836 Sept 54.

1. Z Oddzialow Chirurgicsnych Sspitala Miejskiego w Gliwicach.
Ordynatorsy: dr. S. Brmich & dr. Z. Tabenski
(VARICOSE VEINS, ulcers
surg. skin grafts)
(SKIH TRANSPLANTATION
free graft in ther. of varicose ulcers)

ERMICH, Stefan; TABENSKI, Zbigniew

Surgical indications in gastric and duodenal ulcers. Polski tygod. lek. 11 no.28:1252-1257 9 July 56.

1. Gliwice Plac Wolnosci 8/3. (PEPTIC ULCER, surgery, indic. (Pol))

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TABENSKI, Zbigniew; ERMICH, Stefan

Comparative evaluation of methods of treating myelitis.
Polski przegl. chir. 28 no.11:1155-1161 Nov 56.

1. Z Oddzialow Chirurgicznych Szpitala Miejskiego w Gliwicach.
I. Gliwice, pl. Wolnosci 8, m. 3.

(MYELITIS, ther.

penicillin & surg. (Pol))

(PENICILLIN, ther. use
myelitis (Pol))
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ERMICH, Stefan; ZAWISLAK, Mieczyslaw

Acute inflammation of the tail of the pancreas. Polski przegl. chir. 33 no.7/9:974-975 161.

1. Z Oddzialu Chirurgicznego Ogolnego Szpitala Miejskiego w Gliwicach Ordynator: dr S. Ermich.

(PANCREATITIS)

ERMICH, Stefan; LEJANKA, Maria; KANIEWICZ, Zbigniew

Section of Oddl's sphincter. Pol. przegl. chir. 35 no. 7/8: 806-807 163.

1. Z Oddzialu Chirurgii Ogolnej Szpitala Miejskiego w Gliwicach Ordynator: dr S. Ermich. (VATER'S AMPULLA) (SURGERY, OPERATIVE)

ERMICH, Stefan, dr.; RUTKOWSKI, Boleslaw, dr.

Diagnostic and prognostic value of tongue picture in acute abdominal diseases. Pol. przegl. chir. 37 no.2:103-109 F '65.

J. Z Oddzialu Chirurgicznego Ogolnego Szpitala Miejskiego w Gliwicach (Ordynator: dr. S. Ermich) i z Oddzialu Anesteziologiczneg Szpitala Miejskiego w Gliwicach (Ordynator: dr. B. Rutkowski).

SHANIN, Yu.N.; BURMISTROV, M.I.; BALYUZEK, F.V.; ERMILOV, N.I. Aurgery on the open heart with the D. Milrose apparatus. Vest. khir. 84 no.1:129-132 Ja 160. (MIRA 13:1 (PERFUSION PUMP (HEART)) (MIRA 13:10)

ACC NR: AP6010708 SOURCE CODE: CZ/0034/65/000/004/0288/0289

AUTHOR: Styblo, Karel (Engineer); Ermis, Frantisek; Pivoda, Petr (Graduate chemist); Kovarik, Milos

ORG: VZU NHKG VZKG, Ostrava

TITLE: Determination of gases, and oxygen particularly, by means of the instrument exhalograph EA-1

SOURCE: Hutnicke listy, no. 4, 1965, 288-289

TOPIC TAGS: steel, aluminum, metal chemical analysis, laboratory instrument

ABSTRACT: The instrument is supplied by Balzers of Liechtenstein.

Description of the instrument is supplied by Balzers of Liechtenstein. Description of the instrument is given. Operation of the apparatus is described. The results are reproducible, and obtained in 3 minutes. In samples of steel stilled with Al (up to 0.05% Al) the time required is 5-6 minutes; when 0.5 Al is present the time needed is 10-12 minutes. At higher Al contents, up to 20 minutes is needed for the analysis. Orig. art. has: 2 figures and 1 table. [JRKS]

SUB CODE: 11, 07 / SUBM DATE: none / OTH REF: 006

Cord 1/1 ULR

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041222

A Study of Meckretytically Isolated Cartides from Low-Alloy Ectier Plate. M. Bicha. A. Songlove, 1862 P. Ermis. Historické Liedy, 1965, 19, (2), 149-163. In Cartil. The apparation and electron-diffraction methods were used for the identification. Cartides in vanadium steels of similar compositions. The mode of earbides stabilization is described on the basis of data obtained in experiments carried out in the range 500-550° C. over periods of 8000-125,000 hr.—E. 7.

RADOMIROV, P., prof.; ERMOLAEV, Iv.; KOZAROVA, M.; KHRISTOV, G.; STOIMENOVA, St.;

Molybdenum as microfertilizer in Bulgaria. Selskostop nauka 2 no.9:1153-1160

EMNUSE, N.; KALUINS, A.

Antisepticization of open-zir wooden constructions. p. 139.

BICLOCICHESKATA NAUKA, SELSKIMU L LESPONU KROZIATSTVU. (Latvijas PBR Zinatnu akademija. Biologijas zinatnu nodala) Rija, Latvia, No. 3, 1957.

Monthly list of East European Accessions (MPAI), EC, Vol. 8, No. 8, August 1959. Uncla.

BELYAKOV, G. (Riga); ERMUSH, N. [Ermusa, N.] (Riga); KALNIN'SH, A. [Kalnins, A.](Riga)

Possibilities of utilizing pitch-hydrophobized sand. Vestis Latv ak no.3:85-90 '61. (EEAI 10:9)

1. Akademiya nauk Latviyskoy SSR, Institut lesokhozaystvennykh problem i khimii drevesiny.

(Concrete) (Sand)

ERMUSH, N. [Ermusa, N.]

New developments in the field of wood protection. Vestis Latv ak no.9: 139-140 $^{1}61$.

GROMOV, V.S., kand. khim. nauk, otv. red.; DO BURG, G.E., kand. khim. nauk, red.; IYEVIN'SH, I.K.[Ievins, I.], kand. tekhn. nauk, red.; KAL'EINA, V.K.[Kalnina, V.], kand. tekhn. nauk, red.; RUPAYS, Ye.A.[Rupais, E.], kand. khim. nauk, red.; SERGEYEVA, V.N., doktor khim. nauk, red.; ERMUSH, N.A.[Ermus, N.], st. nauchn. sotr., red.; YUKNA, A.D.[Jukna, A.], kand. tekhn. nauk, red.; LEVI,S., red.; SHKLENNIK, Ch., red.

[Chemical processing and preserving of wood] Khimicheskaia pererabotka i zashchita drevesiny. Riga, Izd-vo AN Latv.SSR, 1964. 238 p. (MIRA 10:1)

1. Latvijas Padomju Socialistiskis Republikas Zinatnu Akademija. 2. Institut khimii drevesiny AN Latviyskoy SSR (for Gromov, Sergeyeva, Ermush).

ERMYAN, A. V.	of the epidermis, formation of papules over the body and extremities, erythemia with symptoms body and extremities, erythemia with symptoms of measles, headache, and general weakness upon of measles, headache, and general weakness upon of application of synthomycin paste removal of an application of synthomycin revealed papules and itching. In the author's experience, these symptoms disappeare the author's experience, these symptoms disappeare within 48 hours after discontinuation of the synthomycin treatment.	Venerol i Dermatol" No 1, p 51 mycin, a synthetic prepn identical widentificatic chloromycetin, is being used ntibiotic chloromycetin, is being used reatment of typhus, typhoid, and dysen restment of typhus, typhoid to this drug rescribes the reaction to this drug rescribes the reaction to this drug resid in various cases. Predominating resid in various cases. Predominating resident injection of synthomyocin were significant the injection of synthomyocin were significant the injection of synthomyocin were significant.	H& 1	
222716	over the symptoms ness upon moval of ing. In of the	al with gused in dysentery. drug ob- ar reactions are skin ere skin ges, itching	/Feb 52 V. 18 Dis-	

ERN, O. S. ERN, O.S.

Practical work in preparing soil mixtures and peat-humus pots.

Biol.v. shkole no.2:87-89 Mr-Ap '57. (MLRA 10:5)

1. Chelyabinskiy pedagogicheskiy institut.
(Vegetable gardening-Study and teaching)

ERN. O.S.

Pupils! experimentation in raising corn. Biol.v shkole no.2: 60-61 Mr-Ap '60. (MIRA 13:8)

1. Chelyabinskiy pedagogicheskiy institut. (Corn (Maize))

SHESTOPALOVA, T.M.; EIN, O.V.

Geramic products on a base of clay from new deposit: in Trans-carpathia. Stroi. mat., det. i izd no. 2:115-123 '65 (MTRA 19:1)

1. Livovskiy filial Gosudarstvennogo nauchno-issledovsteli-skogo instituta stroitelinykh materialov i izdeliy.

R/009/60/000/007/002/003 A124/A026

AUTHOR:

Ern, Sergiu, Engineer

THE PERSON NAMED IN COLUMN TWO

TITLE:

The Study and the General Diagram for the Selection of Operating

Conditions of Automatic Submerged-Arc Welding

PERIODICAL: Metalurgia și Construcția de Mașini, 1960, No. 7, pp. 659 - 663

TEXT: Subject article analyses the main, secondary and accidental elements and phenomena which interfere with the thermo-electric welding process. Some of these elements can be mathematically determined, but the others are difficult to be appreciated. The author also deduces a semi-empiric formula for the value of the welding current, graphically represented in a general diagram, which has to contain all elements necessary for the welding conditions. The main elements of the automatic welding process, i.e., thickness of the sheet in mm (t); area of the welding wire in mm², (q); area of the section of the material deposed in mm², (S); unwinding speed of the wire in m/h (v_d); welding speed in m/h, (v_s); intensity of the welding current in amp, (I); welding tension in v (U); and specific weight of the steel = 7.8 g/cm³ (y), are shown in Figure 1. Between S, q, v_d and v_s there is a relation, which can be expressed by (1), or for the gen-

Card 1/3

R/009/60/000/007/002/003 A124/A026

The Study and the General Diagram for the Selection of Operating Conditions of Automatic Submerged-Arc Welding

eral diagram by (2). The caloric effect can be computed by the relation (7). Accomplishing weldings of different sections (S) with 2.5q · v_d wires of different thicknesses (q), and measuring U and I, it has been established that the value of K varies between 7.5 and 12, and presents a discontinuity against q \cdot v_d because of the necessity to vary the tension. The K/U ratio presents a continuous variation being a function of $\mathbf{q} \cdot \mathbf{v}_{\mathbf{d}}$, since I on the other hand is a function of these 2 factors. The welding current (I) is given in case of a d-c current of 140 - 500 amp by the relation (8), and in case of an a-c current of 224 - 800 amp by the relation (9). The d-c current is composed of the interval (10), and the a-c current of the interval (11). The relations (10) and (11) are represented graphically for the selection of the welding conditions. the total quantity of the heat developed is not a continuous proportion with the quantity of the heat necessary for the melting of the wire at 1,400°C. This fact is due to the variation of the welding tension, which is a function of the value of S. The relation $q \cdot v_d = Sv_s$ (12) determines by its left side, accord-

<u>/</u>

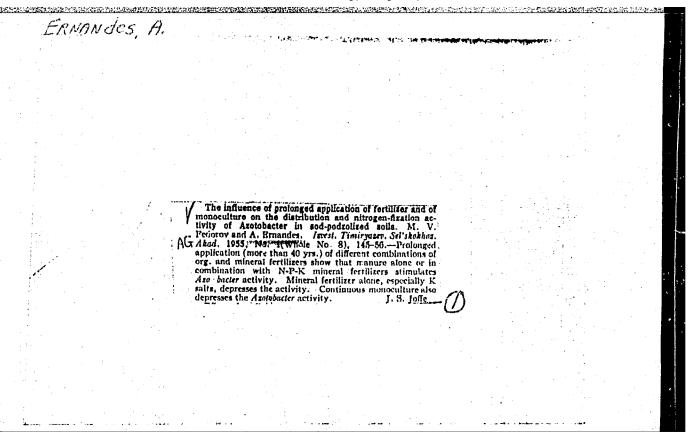
Card 2/3

R/009/60/000/007/002/003 A124/A026

The Study and the General Diagram for the Selection of Operating Conditions of Automatic Submerged-Arc Welding

ing to (10) and (11), the welding current, and by its right side the tension U=f(S). The welding speed (v_S) has no direct influence on current and tension. The control of the welding current is very important. It has been established that a relation exists between t, S and U: S=f(t), and U=f(S). A few suggestions are made for the treatment of the sheets before the welding operation. The quality of the automatically performed welding seams depends on the correct assembly and cleanness of the sheets. The author then finally presents a diagram for the selection of the welding conditions, which quickly supplies the equilibrium solutions of the seven main elements. The general diagram has been established for the Soviet "TS-17 MU" apparatus, but it can be easily adapted to any other apparatus by notating on the coordinates v_d and v_S the divisions of the respective apparatus. There are 3 tables and 4 figures.

Card 3/3



ERNANDES, A.

Physiological properties of weakened and atypical Azato2 heater cultures grown from sodded podzols. M. V. Fedorov and A. Ernandes. Mitrobiologys 24, 170-0(1955).—
Frolonged-cultufflig of A. chroscoccus in sodded podzol
vrakens physiol. activity, especially in N. fixation. The casymes of respiration retain their activity; the N. fixation
ensymes are inactivated, but are readily reactivated by
asparagine, yeast antolyzate, or hay infusion, and also by
trace elements such as Mo and B. Lack of these elements
may even be the weakening factor in podzols or it may be
that podzols contain inhibitors of the growth-stimulating
action of yeast autolyzate and trace elements, perhaps due
to soil achity or lack of carbohydrate nutriens. In any
case the ensyme system for N. fixation is evidently exceptionally sensitive to inactivating influences.

J. F. S.

GELAYAND, I.M.; ERNANDES, L.F.

Automatic control of heat-treating furnaces on a programmed operation. Hetallurg 6 no.8:29-31 Ag 161. (MIRA 14:8)

1. Nauchno-issledovatel'skiy institut metiznoy promyshlennosti.
(Furnaces, Heat-treating)
(Automatic control)

ERNAZAROV, E.Yu.

Regeneration of the root system in apple trees. Izv. AN Uz.

SSR no.5:17-24 '56. (MIRA 12:5)
(Regeneration (Botany)) (Roots (Botany)) (Apple)

ERNDT, Aleksander

On synthetic plant growth substance derivatives of p-hydroxy-benzophenone. Rocz chemii 36 no.5:921-928 162.

1. Department of General Chemistry, College of Agriculture, Krakow.

ACC NR. AP6023858

SOURCE CODE: UR/0108/66/021/007/0044/0051

AUTHOR: Erne Ach (Budapost)

ORG: none

n

3

SI

TITLE: Methods of information transmission by the codes that carry information plus address or address only

SOURCE: Radiotekhnika, v. 21, no. 7, 1966, 44-51

TOPIC TAGS: electronic automatic telephone system, information transmission, multichannel telephone system, signal transmission

ABSTRACT: Extreme difficulties involved in synchronizing a large number of channels, in a pulse-code-modulation signal transmission system, are explained. A nonsynchronization system is suggested in which, at the sending end, a code group r_k that has arisen as a result of testing k-th input is supplemented by an "address code"; the latter is a code group p_f that corresponds to the f-th output, the addressee output. The length of the address group depends on the number of channels used; for a 10023-channel trunk, a 19-bit code word is required. Thus, the number of bits is 2.4 times as high as that required for the synchronized system; however, the latter is practically not feasible for such a large number of channels. To reduce the

2/2 | Card 1/2

UDC: 621.374.372

ERNE, K.

"Sowing maize with soybeans".

p. 59 (Mezhduna Rodnyi Selskokhoziaistvennyi Zhurnal, Vol. 2, No. 2, 1958, Sofia, Bulgaria).

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 12, Dec. 58.

LIBKOVA, H.; BLASKOVIC, D.; VILCEK, J.; REHACEK, J.; GRESIKOVA, M.; MACICKA, O., ERNEK, E., MAYER, V.

Incidence of antibodies against tick-borne encephalitis virus in man and domestic animals in a small village in a natural focus of infection. J.hyg.epidem., Praha 4 no.3:327-332 160.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

(ENCEPHALITIS, EPIDEMIC immunol.)

LIBIKOVA, H.; ALBRECHT, P.; ERNEK, E.

Diagnostic horse serum and gama-globulin against viruses of the tick-borne encephalitis (TE) complex. Acta virol. Engl. Ed. Praha 5 no. 4:262 J1 '61.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

(ENCEPHALITIS EPIDEMIC immunol) (IMMUNE SERUMS)
(GAMMA GLOBULIN)

NOSEK, J.; REHACEK, J.; ERNEK, E.; GRESIKOVA, M.

The importance of small vertebrates as reservoirs of tick encephalitis viruses in a natural focus in the area of Zlate Moravce. Cesk. epidem. 11 no.6:381-385 N '62,

1. Virologicky ustav CSAV v Bratislave.
(ENCEPHALITIS EPIDEMIC) (ENCEPHALITIS VIRUSES)
(VERTEBRATES)

CZECHOSLOVAKIA

ERNEK, E., MACICKA, O. and ILLES, J. [Virology Institute of CSAV, Bratislava.]
"[Tick-Borne Encephalitis Part] 6. Epizootic Situation Among Domestic Animals."

Bratislava, Biologicke Prace, Vol 8, No 9, 1962; pp 52-58.

Abstract [English summary modified]: Data on contagious diseases in domestic animals in the district Zlate Moravce 1954-1960 and serologic epidemiologic study of Q-fever, brucellosis, toxoplasmosis and leptospirosis. Epizootic conditions are considered favorable to reliable vaccination campaign in this area against tick-borne encephalitis. Three tables.

1/1

CZECHOSLOVAKIA

BLASKOVIC, D., LIBIKOVA, H., ERNEK, E., GRESIKOVA, M., MACICKA, O., VILCEK, J., MAYER, V. and REHACEK, J.; [Virologic Institute of CSAV, Bratislava.]

"[Tick-Borne Encephalitis. Part]. Planning and Actual Implementation of the Vaccination."

Bratislava, Biologicke Prace, Vol 8, No 9, 1962; pp 66-75.

Abstract [English summary modified]: Data on serologic diagnosis before and after vaccination in 500 cows, 500 sheep and 500 goats. Both as regards immunogenicity and absolute cost, the live vaccine is superior to the formolized one and the only minor but important advantage of the inactivated one was its safety. Five tables.

1/1

CZECHOSLOVAKIA

GRESIKOVA, M. and ERNEK, E.; [Virology Institute of CSAV, Bratislava.]

| Tick-Borne Encephalitis Part] 11. Transplacental Transmission of the Antibodies in Vaccinated Domestic Animals."

Bratislava, Biologicke Prace, Vol 8, No 9, 1962; pp 94-99.

Abstract [English summary modified]: Both live and formalized vaccine against tick-borne encephalitis and louping ill cross the placenta in cattle but the percentage of protected calves varies from 18.6 to 75%. Five tables.

1/1

NOSEK, J.; KOZUCH, O.; LICHARD, M.; ERNEK, E.; ALBRECHT, P.

Ç

Experimental infection of the great dormouse (Glis glis) with tick-borne encephalitis virus. Acta virol. 7 no.4:374-376 Jl '63.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

(TICKS) (ENCEPHALITIS)

KOZUCH, O.; NOSEK, J.; ERNEK, E.; LICHARD, M.; ALBRECHT, P.

Persistence of tick-borne encephalitis virus in hibernating hedgehogs and dormice. Acta virol. (Praha)[Eng] 7 no.5:430-433 S 163.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

(ENCEPHALITIS, EPIDEMIC) (ZOONOSES)

(HIBERNATION)

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041222

ERNEK, E.; KOZUCH, O.; LICHARD, M.; NOSEK, J.; ALBRECHT, P.

Experimental infection of Clethrionomys glareolus and Apodemus flavicollis with tick-borne encephalitis virus. Acta virol. (Praha)[Eng] 7 no.5:434-436 S '63.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

(ENCEPHALITIS, EPIDEMIC)

LIBIKOVA, H.; MAYER, V.; REHACEK, J.; KOZUCH, O.; ERNEK, E.; ALBRECHT, P.; ZEMLA, J.

Study of cytopathic agents isolated from Ixodes persulcatus ticks. Acta virol. (Praha)[Eng] 7 no.5:475 S 163.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

(VIRUSES) (TICKS)

CHUMAKOV, M.P.; KARPOVICH, L.G.; SARMANOVA, Ye.S.; SERGEYEVA, G.I.;

BYCHKOVA, M.V.; TAPUPERE, V.O.; LIBIKOVA, Ye.O.; l'ayyer, V.;

RZHEGACHEK, R. [Rehacek, R.]; KOZHUKH, J. [Kozuch, O.]; ERNEK, E.

Isolating from the tick Ixodes persulcatus and from sick persons in Western Siberia a virus differing from the pathogen of tick-borne encephalitis. Vop. virus. 8 no.1:98-99 Ja-F'63.

(MIRA 16:6)

(VIRUSES) (ENCEPHALITIS-MICROBIOLOGY)

LIBIKOVA, H.; GRESIKOVA, M.; REHACEK, J.; ERNEK, E.; NOSEK, J.

Immunological surveys on natural foci of tick encephalitis. Bratisl. lek. listy 43 no.1:40-53 '63.

- 1. Virologicky ustav CSAV v Bratislave, riaditel akademik
- D. Blaskovic.

(ENCEPHALITIS, EPIDEMIC)
(ARBORVIRUS INFECTIONS)
(NEUTRALIZATION TESTS)
(ANTIBODIES)

LIBIKOVA, H. C. REHACEE, J. MAYER J. C. KOZUL II O. EHNER.E.

Tick-borne enternalists classes be as ad by activien bethoughton better permanant to the designs equience. Frank finesis our so that

I. Institute of Virology, Classes as A scange (Something Bratis, ava.

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LIBIKOVA, H., REHACEK, J.; GRESIKOVA, M.; KOZUCH, O.; SOMOGYIOVA, J. Ernek, E.

Cytopathic viruses isolated from ixodes ricinus ticks in Czechoslovakia. Acta virol (Praha) [Engl] 8 no.1:96 Ja'64.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava.

LIBIKOVA, H.; MAYER, V.; KOZUCH, O.; REHACEK, J.; FRNFK, E.; ALBRECHI. P.

Isolation from Ixodes persulcatus ticks of cytopathic agents (Kemerovo virus) differing from tick-borne encephalitis virus and some of their properties. Acta virol. (Praha) [Eng.] 8 no.4:289-301 Jl 164.

1. Institu e of Virology, Czechoslovak Academy of Sciences, Bratislava.

ERNEK, E.; LICHARD, M.

Role of the English sparrow (Passer domesticus) in the circulation of tick-borne encephalitis virus. J. hyg. epidem. (Praha) 8 no.3:375-379 '64

1. Institute of Virology, Gzechoslovak Academy of Sciences, Bratislava.

GRASTE WA,Me; NOCHT, Je; EMMOR, Je; MENAY, West Lothern, Me Study on the ecology of Tribes virus. Asta virol. (Terra) [Fig.] 9 no.1283-98 Je 165 L. Institute of Virology, Cashoslovak Anademy of Sciences, Bratislava.

ERNEY, Gyorgy

New nomenclature of gear wheels. Szabyany kozl 13 no.7:158-160 Jl '61.

ERNEY, Gyorgy, okleveles gepeszmernok

Comparing the precision standards of up-to-date cylindrical cogwheels. Gep 16 no.11:415-424 N '64.

LEND'YEL, V.I.; ERNEST, B.M.

Use of analyticity conditions of the scattering amplitude in determining the coupling constant. Dokl. i soob. UzhGU. Ser. fiz.—mat. i ist. nauk no.5:14-16 '62. (MIRA 17:9)

JELEA, Al.; ERNEST, Ilie; PIRVU, V.; NUTA, M.; DIACONU, J.

Contributions to the study of trypsin treatment in bronchopulmonary disease. Rumanian med. rev. no.2:25-28 '62.

(TRYPSIN) (LUNG DISEASES)

JELEA, Al., dr.; ERNEST, Ilio, dr.; PIRVU, V., dr.; NUTA, M., dr.; DIAGONU, J.,

Contributions to the study of trypsin therapy in bronchopulmonary diseases. Med. intern. 14 no.1:67-72 Ja 162.

1. Lucrare efectuata in Institutul de medicina interna al Academiei R.P.R. si M.S.P.S., director: acad. N.Gh. Lupu.

(LUNG DISEASES therapy) (BRONCHI diseases)

(TRYPSINS therapy)

CAPEK, A.; TADRA, M.; KAKAC, B.; ERNEST, I.; FROTIVA, M.

Microbiological transformation of derivatives of hexahydronaphthoic acid. Folia microbiol. 7 no.4:253-254 162.

1. Institute of Phermacy and Biochemistry, Prague 3.

(NAPHTHALENES - metabolism) (LACTONES - metabolism)

(FUNGI - metabolism) (ACTINOMYCES - metabolism)

ERNEST, I; JÍLEK, O; VEJDĚLEK, Z; PROTIVA, M.

Czechoslovakia

Research Institute of Pharmacy and Biochemistry -- Prague - (for all)

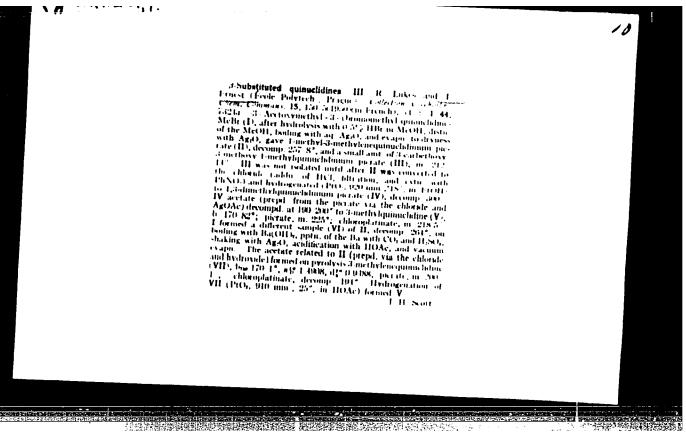
Prague, Collection of Czechoslovak Chemical Communications, No 4, 1963, pp 1022-1029

"Synthetic Experiments in the Group of Hypotensively Active Alkloides XXVI. On Some New (-)-Methyl-

ERNEST, I.; KAKAC, B.; PROTIVA, M.

Synthetic experiments in the group of active hypotensive alkaloids. Pt.31. Coll Cz Chem 29 no.1:251-265 Ja*64.

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.



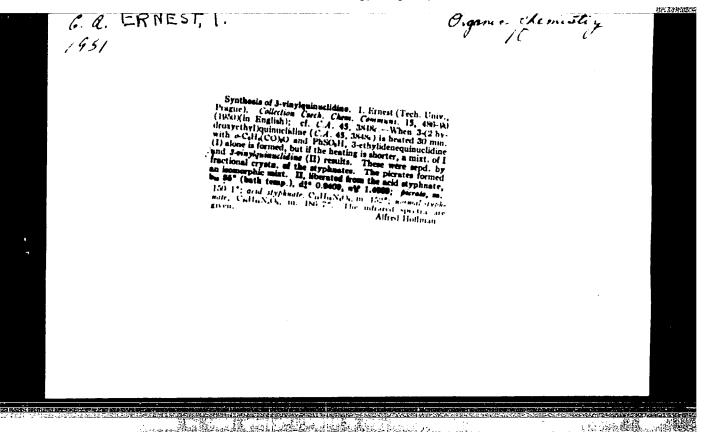
10

CAERNEST, 1.

(1.05 g.) in 10 oc. PhMc was reflexed to more with 10 g. PtM, in PhMc added dropwise, the welvent removed, the residue heated 2 hrs. at 1.50 net, decompd, with its remainder of the solvent strain distd, the residue methods and the base steam distd. Iron the 11C1 salt of the distd and the have steam distd. Iron the 11C1 salt of the distd late the paralle, in 1225 net, of 3.6 th/siden, generalized (VII) was prepst.) (Alcosphatisate, in 170 sm.) 1(0.56 g.) heated 4 hrs. at 181° with 10 cc. coned. HCL in a scaled tube along ave VI. 10(35 g.) heated 4 hrs. at 115° in a scaled tube with 10 cc. coned. HCL gave 3.(2)-klorosibid quantisting (VIII) isolated as the paralle, in 130.5 7°. 1 (30) mg.) in 6 cc. whene was shaken with 135 ng. k. dust in 4 cc. x deing num with fatting freshly distd. Cls., 2 c., p. (4), and on mg. Mci added, the maxistation of several his at the first and decompt in a linking string 280 mg. of distillation of his, and the brown ppt. collected, washed with 1430, and decompt in a linking string 280 mg. of distillation in 101.5 2°, of the A workely-tanibate of 4 th/signomalidine, in 101.5 2°, of the A workely-tanibate of 4 th/signomalidine, as however, the linking property of the sat 100° in a pressure battle to give 4.5 however, which is a linking and acclaimed with 100 and paralled and gave the 3 (2) method yethyl-quantidine pictate, in icid gave the J (2methoryethyl quinucliding picrale, in 128-05.

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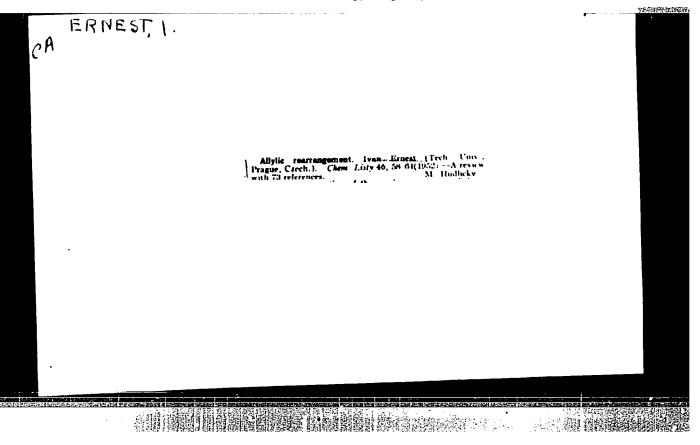
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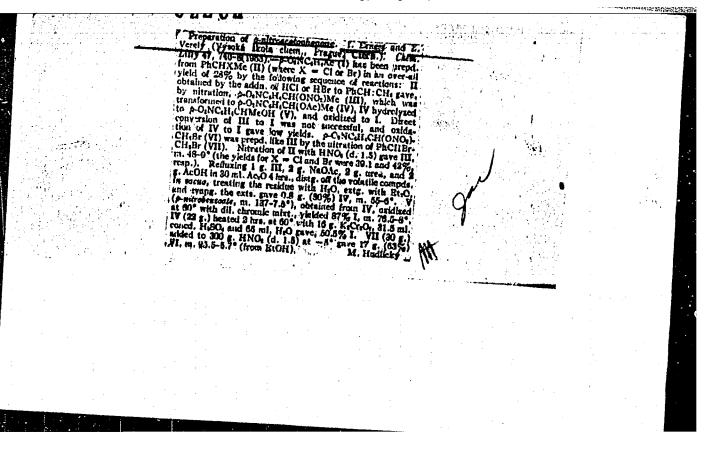
Decomposition of bis(diano hotanes) with capric exide. Ivan. Massed—and JH Hofman (Tech. Univ., Prague, Crech.) (hem Lity 48, 201-4(1961).—Bis(dian hetenes) give, on decompo with Cut), unsaid cyclic dilatinura. The dichlardie (I) of 2-carbony-yelopentaneacetic acid (IA) was prepil. by refluxing 7.2 g. IA 6 hrs. with 20g. PCL in 25 ml. sylene, stripping off the sylene and PCCl₄ in resum, and distg. the cruste I (6.7 g. h. 97-112°, 1.5 g. h. 14-32°); resilato, yielded 5.9 g. I. h., 80°. With SCCl₄ IA gave montly the anhydride, h. 114-10°, which yielded I with PCl₄. (CH₃COCl₃, CH₃COCl₃), and I treated with a 6-mol. excess of CH₃N₃ in ether gave the bis(diano heteroses), 1,6-bis(diano-2,6-heranectione (II), 1,7-bis(diano-2,6-heranectione), 1,1-bis(diano-2,6-heranectione). II,6-bis(diano-2,6-heranectione). II,6-bis(diano-2,6-heranectione). III, 1,7-bis(lancetto-nyl-yelopentane, probably the 49-homer (IV), resp. II even at room terms, but its sule. in Calla was stable. III (19 g.) from 10 g. CH₃CCH₃COCl₃, yellow needles from other, m. 63-4.5°, decomp. at 108°. IV, yellow oil, decomp.

abour 1(11)*, stable in Calis. II (it g.) with 11Cl in 300 ml. ether gave 1,0-dichburg-2,0-beaanctissie (V), white ctystab, m. 87.5-8° (from ROH). III (2 g.) gave similarly 2 g. crystals in. 73-5° (76° after recrystin from 1(2 ROH) petr. ether init.). III (1 g.) freated with 13 ml. 20% NaOlt in 45 ml. diseases at 60-70° in the presence of 2.3 ml. 10% AgNOs, and the distance disid off after 45 min 10% AgNOs, and the distance disid. IV (0.55 g.) with from RiOH), hydrolysed to the acid. IV (0.55 g.) with 1(Cl in 70 ml. ether yielded 0.45 g. cm-1-chloroacetyl-3-

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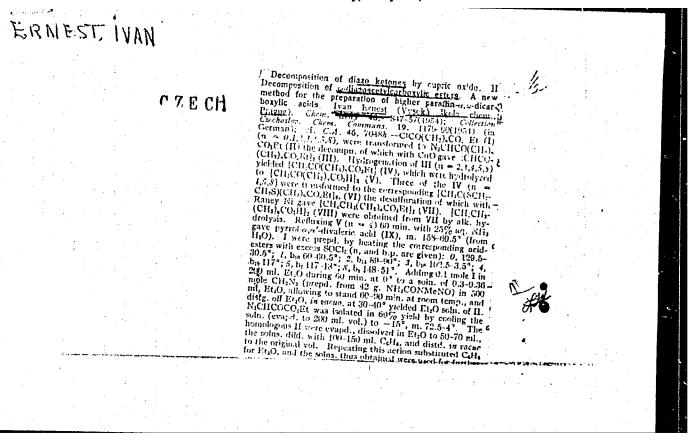




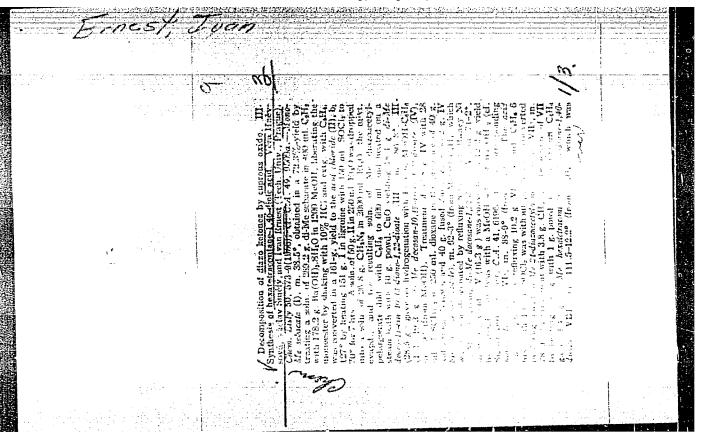
Herout, V., Keil, B., Protiva, M., Hudlicky, M., Erne D., and Gut, J.: 756pp. Ros. 86. Reviewed in Chem. Listy49, 1415(1955).		mest,	iva, M., Hudlicky, M., E nil technika organické ci 354. 750 pp. Kčs 60. [5(1955)]	it, V., Kell, B., Pro Gut, J.: Laborato Nakl. CSAV, 1 1 Chem. Listy 40, 14	Heron Cli Prague: — viewed i	142	
	d Gut. J.:	J., and use CSAV.	dlicky, M., Ern Publishing Ho y49, 1415(1955)	tiva, M., Ru Techniques. 1 Chem. List	l. B., Pro- Laboratory Reviewed in		Chy

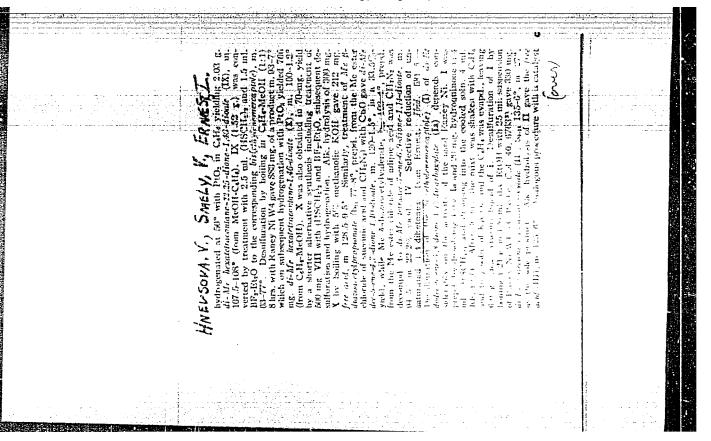
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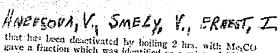
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reactions. Pure II obtained by distz, of the lettermeasure unstable, orange inpuid. Perlusing 9.1 mole II. 230 ml. Call, with 5 g. posseried Cno 20 min. then 2 g. 60 49 min.), filtering off the CuO, and evange, the solvent in value gave crack III mostly cryst. (except for n = 3), office of the CuO, and evange, the solvent in value gave crack III mostly cryst. (except for n = 3), office of the cuotient of the mother figuors. Results of the preparent of III are as follows: n, yield (based on I) in Cr. (from petr. ether): 0, 22, 133 4.5°; I, 0.9, 100 7° (from Call., E(OH)); 2, 20.3, 62 3° (dievine, m. 111-12°), J. 52.0, 35 5.5° (bir.p. nit-ophenylmylazare, m. 114.2°), decompn.); 4, 42.4, 57 8.3° (dievine, m. 118°; bir-fenitophenylmylazare, m. 140 3°, decompn.). III was hydrogenated in E(OH-Call. solm, at 1 atm., 21°, and 5% Pd-CaCO. 1.14-1.24 moles II per mole II was communed. The following IV are prepal. (n. yields in 6, and m.p. given): 3, 71.8, 20°; 4, 65.8, 50.3°; 6, 60.7, 46.5 8°; 8, 84.6, 67-9°. Heating IV refluxed 2 hts. with HCl) gave V (m.p.): 2, 155-6°, 3, 134-5°, 4, 123 9.5°, 5, 132.3-3.5°, 8, 133-4.5°. Treatment of IV with (CH-SH), NasSO,, and ZnCl. in a dioxane soln, yielded VI (n. m.p.): 4, 60-1.5° (64.0%); 5, 30.5-9°; 9, 4, 61.2, 50.5°, 53.5 (based on VI), 37-9°; 8, 72.6 (based on VI), 77-9°; 8, 72.6 (based on VI), 91-2.5°. Free acids VIII obtained by sapon, with 10% ag-nle, NaOH were crystd from Calla (n. m.p.): 4, 125-6°, 5, 124.5-5°, 8, 135.5-6.5°. M. Hudlický







that has been deactivated by boiling 2 hrs. with McCo gave a fraction which was identified as a mixt. of 58% II dedec-6-enc-1.12-dicarboxylate (IV). characterized by confountification analysis and by hydrogenation, yielding II. When a 12-he, inactivation was used, desulfuration of 0.5 g. I gave a 869-mg, fraction, ba. 135-45°, which on alk hydrogensis yielded crystals, m. 125-7°, probably of 110, C. (CH₁).CH.CH.CH.CH.C(Ch(1)).CO₂(1), which as alk hydrolysis yielded crystals, m. 125-7°, probably of 110, C. tivated enalyst produced a fraction, ba. 133-7°, apparently of IV, identified by hydrogenation which gave II and after alk, hydrolysis yielded III. A parallel expt. from 4.7 g. I gave a 1.18 g. fraction, ba.s 124-7°, which was chromatographed on Al₂O, yielding By alk, hydrolysis of the ligroine cluate 40 mg. cryst. dedec-6-me-1.12-dicarboxylic acid, m. 107-9°, confirmed by coulometric analysis. At empts were made at overcoming difficulties encountered in the prepn. of unsatd. dicarboxylic acids of the type RO.C(CF 2).COCII:-CHCO(CH₂).COCK (V) by prepg, addn. compd., of V with anthracene (VI), however, without success. The adduct of Ia and VI obtained by heating 5 hrs. powd. mixt. of 3.6 g. VI with 6.8 g. V (h = 4, R = 12) forms (rystals, m. 183-4° (from C.He-AcOII). Similarly was prepd. the adduct of dr-Mc cct-4-mc-3.6-dione-1.5-dicarboxylic with VI from 0.7 g. VI and 1.0 g. V (n = 2, R = M.), forming needles, m. 136.5° (from C.He-AcOII). and yielding on sapen. crystals m. 213-14° (decompa.) (from and yielding on sapen. crystals m. 213-14° (decompa.) (from and yielding on sapen. crystals m. 213-14° (decompa.) (from and yielding on sapen. crystals m. 213-14° (decompa.) (from and yielding on sapen. crystals m. 213-14° (decompa.) (from and yielding on sapen.

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CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic Chemistry

G-2

Abs Jour : Ref. Zhur. Khimiya, No 3, 1950, 7975

Abstract: 29.2 gm ethyl oxalate and KOC₂H_K (out of 7.02 gm of K and 8.65 gm of alcohol in 85 ml of ether). The benzylisothio salt of II has a m.p. of lu8°C (in CH₃OH-ether). II and an alcoholic solution of HCl (~20 C, 2 days) react to yield ethyl: -(2-pyridyl)-\, A-diethoxyvalerate, b.p. 136°C/l mm Hg, n^{2O} D l. 4842. By hydrogenating the Ba salt of II in an aqueous solution at 25°C and 730 mm Hg over PtO₂, \(\tilde{\text{-(2-pyridyl)-}}\) A-oxyvaleric acid (III), m.p. 137-139°C (in alcohol) was prepared; the ethyl ester of the latter acid had a b.p. of 150-155°C (bath temperature)/1 mm Hg, n^{2O}D 1.5040. A mixture of both sterioisomers of ethyl: -(2-piperidyl)-\, -oxyvalerate, b.p. 123-129°C/2.5 mm Hg, m.p. 66-80°C (in petroleum ether) was separated by hydrogenating free II (water, PtO₂, 19°C, 965 mm Hg) and esterifying the product with alcoholic HCl. The racemate (m.p. 92-93°C) was

Card 2/3

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ERNEST, I.; PITHA, J.

SCIENCE

Periodical COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS. SBORNIK CHEMHOSLOVATSKIKH KHIMICHESKIKH RABOT. Vol. 23, no. 1, Jan. 1958.

ERNEST, I.; PITHA, J. Quinolizidine derivatives. I. Catalytic hydrogenation of δ -(2-pridyl)- \propto -oxovaleric acid. In German. p. 125.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G
Abs Jour: Ref Zhur-Khim., No 2, 1959, 4619.

CuO, are cyclized by the action of strong acids in CH₃COOH medium to form unsaturated 2.5-disubstituted derivatives of furan of the type OCR=CHCH=CCH=CHR'. The reaction in all probability proceeds by a mechanism similar to that of the opening of the furan ring according to Marckwald. Preparation: 60 gms of butyl chloride on treatment with diazonethane in ether solution at -20' give 1-diazonethane in ether solution at -20' give 1-diazonethane-2; the ether is distilled off and the product is decomposed by refluxing for 15 min with 6 gms CuO in 2 liters of ClH₆, giving 5-decene-4,7-dione (I), yield 28.5%, mp 55-56.5 (from CH₃OH). Using a similar procedure, dihydrocinnanyl chloride gives a 27.3% yield of 1,8-diphenyl-4-octene-3,6-dione (II), mp 85-85.5 (from alc). 2 gms of the methyl

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G
Abs Jour: Ref Zhur-Khim., No 2, 1959, 4619.

chromatography on Al₂O₃ (elution with benzene); the free acid (Mp 1016; from aqueous alcohol) on oxidation with KMnO₄ gives suberic acid and sebacic acid. I yields 2-propenyl-5-propylfuran, bp 47-50°/0.4 rm, n¹⁰D 1.5008; the methyl ester of 4-heptene-3,6-dione-1-carboxylic acid gives 5-methyl-2-(½-carbomethoxyvinyl)-furan (IV), yield 74½, rmp 36-37°, bp 65-70°/2rm; the free acid (V) has an up of 154° (from water). 5-ethyl-2-(⅓-carbomethoxyvinyl)-furan (VI), rmp 47-48°, bp 75-80°/1.5rm, was also synthesized from the methyl ester of 4-octene-3,6-dione-1-carboxylic acid. THe UV spectra of III-VI are given.

VI. Esters of asymmetric unsaturated diketocarboxylic acids for the syntheses reported in the preceding

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G
Abs Jour: Ref Zhur-Khim., No 2, 1959, 4619.

fold excess of VIII is used, the yield sic is increased to 33%. Using a similar procedure, VII and 1-diazo-2-butanone give the methyl esterof 4-octene-3,6-dione-1-carboxylic acid, yield 15.5%, bp 125-1300/2mm, up 47-400 (from petroleum ether) (the product was separated by distillation after the removal of 1,2-dipropionyl ethylene, yield 53%, bp 80-850/3mm, up 52-53 (from petroleum ether)); VIII and the methyl ester of w -diazoacetylvalerianic acid after distillation of IX (47%) and crystallization of the methyl ester of dodecene-6-5,8-dione-1,12-dicarboxylic acid (yield 14%, up 93-940 (from CH₂OH)) give the methyl ester of 6-nonene-5,8-dione-1-carboxylic acid, yield 21%, bp 120-1400/2 mm, up 53-540 (from petroleum ether).

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CZECHOSLOVAKIA/Organic Chemistry. Synthetic Organic Chemistry. G
Abs Jour: Ref Zhur-Khim., No 2, 1959, 4619.

benzoic acid (X), yield 98%, up 70-71°; the ethylester of p-diazoacetylbenzoic acid (XI) yield 99%, up 65-66°. The following compounds were prepared by refluxing X or XI for 15 min with CuO in C4H6: 33.5% 1,2-bis-(n-carbethoxybenzoyl)-ethylene, up 131-132° (from ethyl acetate) (XII); 36.5% 1-2-bis-(p-carbethoxybenzoyl)-ethylene (XIII), up 194-195° (from benzene). 1,2-bis-(o-carbethoxy-benzoyl)-ethylene, up 160° (decomp; from alc-benzene) was obtained by a similar procedure from the acid ethyl ester of phthalic acid without the separation of intermediate products. The hydrogenation of XIII to XII over Pt (from PtO2) at 22° and at normal pressure yields 1,2-bis-(p-carbethoxylbenzoyl)-ethane, up 157-158° (from alc); similarly 1,4-bis-

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SACURAT SACURAT ASS. JOUR.	: SUSTICER TVAUEN : Organic Chamistra. Laberd, Suratennes end Their Synthetic Analogs : RAKhim., No. 13 1359, No. 68530
AUZHOR IFST. TITL:	: Fithe, J.; Armest, T. : - : Synthetic Amportments in the Alled windle Series. 71. detailed to Telegraphic and 7-(2-arming)-keyones. : Chem. linty, 1970. 51. No. 10, 1990-1990.
The state of the s	the hydrocommution of T-(cyrical-2) attramone-2 (1) and 5 (product-6) or remained none-2 (II) as the cyrical-6 period by to one fine to recipion to the fit had in the position in, the best of the fit of the last of hereal (1) and the best of remained correlation, to the fit of the purpose of remaining the fit of the purpose of remaining the fit of the purpose of the fit of the purpose of the fit of the purpose of the fit of the fit of the purpose of the fit of the fit of the purpose of the fit
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A STERACT CONSTI	: Linguise, from the products of hydrocourien of \$-(pyridyl-0)-a-herovelenic resid (V), is use possible to propule a such constitut of quinolysicinecerboxylle-n sold (VI), istudited with the coid described in the reviews report (see abstract to DARLY). Since soch IV (substance obtained in the propulation), and allolupinine described in the provision report) and identical, the described discon-	
i Loard:	3/7	

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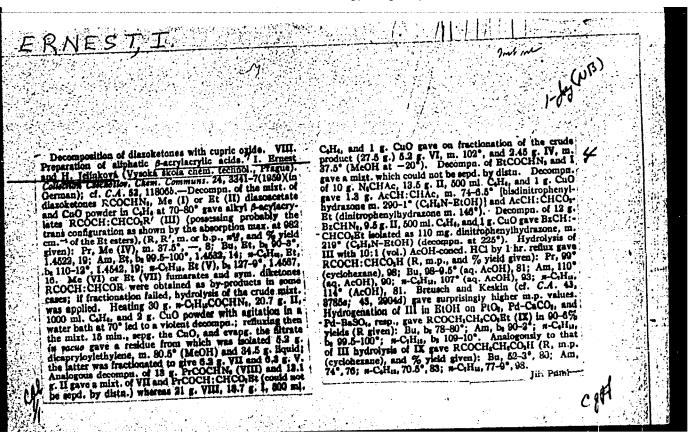
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orid. Pub.	:
ABBTRACT contid	: of esters, an othyl ether, VI (6%), is separated chromatographically; pierate, i.y. 130.5-1320 Jan Kovar
CARD:	7/7
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ERNEST, IVAN

Esters of unsaturated dioxo carboxylic acids. Ivan Britest and Zdenka Linhartova. Czech. 88,300, Jan. 16, 1959. Heating a soln. of an alkyl diazomethyl ketone with an o-diazoacetic ester in a hydrocarbon solvent in the presence of CuO gives title compds., RCOCH:CHCO(CH₁).-CO₁R' (1), besides RCOCH:CHCOR (II) and RO₂C(CH₂).-COCH:CHCO(CH₂).-COCH:CHCO(CH₂).-COCH:CHCO(CH₂).-COCH:CHCO(CH₃).-COCI (cf. C.A. 50, 13749b) heated with stirring with 4 g. McCOCHN₃ and 3 g. powd. CuO in 1 l. C₄H₆ to boiling, the evolution of N completed by refluxing 15 min., the catalyst filtered off, and the solvent distd. off in macuo gives on standing 1.8-2.2 g. III (R = Mc, n = 2), m. 120-1° (MeOH). The liquors fractionated in macuo give 1 g. II (R = Mc), b₁ 80-5°, m. 74°; and 2 g. I (R = R' = Me, n = 2), b₂ 119-20° (solidifies at -20°). Similarly, IV and BtCOCHN₂ give II (R = Bt), b₃ 80-5°, m. 52-3° (petr. ether), and 15.5% I (R = Bt, n = 2, R' = Me), and Mr and allocations at the solution of the solutio

ERNEST, IVAN

Distr: 4E3d Unsaturated 2.5-disubstituted furan derivatives. Ivan Brnest and Jan Stanek. Czech. 88,760, Fcb. 15, 1959. Treating solns. of R COCH: CHCO(Cli₂)R²(I) in an anhyd. polar solvent with atrong mineral ackls gives title compds.

199(18)

ERNEST

4E2c(j)/4E3d Distr: Addition of metalloorganic compounds to unsaturated pyridine bases. V. Hneysova and L. Ernest (Vysoka školachem.-technol., Prague). Collection Czechoslov. Chem. Communs. 25, 1468-74(1960)(in German).—PhLi, lutidylithium, and EtMgBr added unsatd. 2- and 2,0-substituted. Communs. 25, 1468-74(1960)(in German).—Ph.L., lutualy-lithium, and EtMgBr added unsatd. 2- and 2,0-substituted pyridine bases having a double bond conjugated with the pyridine nucleus in the side chain. The org. component of the reagent was attached to the β-C atom of the side chain. 2-Methyl-6-styrylpyridine (1) (5 g.) added with stirring to PhLi (from 0.7 g. Li, 5.7 g. PhBr, and 80 ml. Et₂O), the nixt. stirred 1 hr., decompd. with aq. NH₄Cl soln., the basic products extd. with dil. HCl (1:1), basified and extd. with Et₂O gave 3.0 g. 2-methyl-6-(β,β-diphenylethyl)pyridine, b. 177-9°, m. 66.5-7.5° (cyclohexane); pierate m. 184.5-0.5° (EtOH). Similarly, 10 g. I allowed to react with PhLi from 11.5 g. PhBr in 70 ml. Et₂O and 3 g. EtCHO in 100 ml. Et₂O added dropwise gave 4.05 g. 2-methyl-6-benzhydryl-β-hydroxybutyl)pyridine, m. 169.5-70.0° (EtOH); pierate, m. 177-8° (EtOH); O-Ac deriv. m. 110.5-11.5° (EtOH). Analogously the treatment of 2-butenyl-pyridine (11), 2-atyryl-pyridine (111), and 2,6-distyrylpyridine with 40-60% excess of 0.5-0.8M PhLi soln. in Et₂O gave, resp., 50.8% 2-(β-pyridol 1.2-atyl-2'-d]pyrazine-6,12-diol (VIII), m. 172-80° pyrido[1,2-a:1',2'-d]pyrazine-6,12-diol (VIII), m. 172-80° (alc.), yield 11.8%. IV and V give VIII. PhMgBr with III in Et₁O-anisole yielded after decompn. with HCl 19.8% α,α-diphenyl-2-piperidinemethanol (IX), m. 81-2°, (cf. Tilford, et al., CA 43, 2205g). IX was also obtained by reaction of 5.4 g. Mg and 36.2 g. bromobenzene and addn. of 15.4 g. II in 100 ml. Et₂O in 16.3-g, yield;

(EtOH-AcOEt)]. The origin of 1,1,3-triphenyl-2,4-bis(2-) pyridyl)butane, m. 183-5.5° [dipicrate, m. 133-40° (bath from EtOH)], as a side product of V was explained by the reaction of the intermediary organolithium deriv, with another mol. of III. The above addn. reaction failed in the case of 2-vinylpyridine, because of fast polymerization of the unsutd, base, and also in the case of bases having an unsutd. side chain in position 4. e.g. in 4-styrylpyridine, which was case of 2-vinypyridine, because of histopyridine, which wis side chain in position 4, e.g. in 4-styrypyridine, which wis recovered unchanged. 2,6-Lutidyllithium yielded with II 49.2% 1,3-bis(6-methyl-2-pyridyl)-2-ethylpropane, b₁ 134.3-5.0°; dipierate m. 163.5-70.0° (EtOH-Et₂O). In certain cases the above addn. of Li compds. had an analogy in the behavior of Grignard reagents, since I allowed to react with EtBr and Mg in Bu₃O gave IV, whereas reaction of EtMg3r with Ia, II, and III gave complicated mixts. of products. From the reaction mixt. of Ia and EtMgBr was isolated '26.4%' 2,4-diethyl-1,3-bis(2-pyridyl)hexane, b₁₋₈ 160-70° [dipierate m. 173-4.5° (Me₂CO)], and from that of II and EtMgBr was obtained 43%' 2,4-diethyl-1,3-bis(6-methyl-2-pyridyl)hexane, b₁₋₈ 155-70° [dipierate m. 24-5° (Me₂CO)-Et₂O)]. 2-(B-Hydroxybutyl)pyridine, b₁ 117.5°, was obtained in 35.3-g. yield by adding dropwise a solation of 27.5 g. EtCHO in 100 ml. Et₂O to the reagent from 49.8 g. 2-pinoline and 1 l. 0.0M PhLi solation and working up as usual; compg. with 10% NH₄Cl soln. and working up as usual; metho-p-tolucnesulfonate m. 121-4° (EtOH-Et₂O). L. J. Urbárel:—

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and the state of t COUNTRY : CZWZYCSIOVALJA CATTICRY : Organic Chamistry. Synthetic Organic Chamistry ABS. JCMR. : RZKhim., No. 1 1960, No.1138 : Ernect, I.; Shamelt, J. AUTHOR IFST. : Decomposition of Diagotetones with Supric Caide. TITLE V. A 'er Reaction of Aliphable Unsaturated **√**-Diketones ORIG. PUB. : Collect. Czechosl. Cham. Communs, 1959, 24, Ho 2, 530-535 ABSTRACT See RAMMhia., to 2, 1030, To 1619. 1/1 CARD: 0.4

ADLEROVA, E.; BLAHA, L.; BOREVICKA, M.; ERNEST, I.; JILEK, J.O.; KAKAC, B.; NOVAK, L.; RAJSNER, M.; PROTIVA, M.

Synthetic experiments in the group of hypotensive alkaloids. VI. Some notes on the preparation of alicyclic components in the synthesis of compounds of the reserpine type. Coll Cz Chem 25 no.1: 221-236 Ja *60. (EEAI 9:22)

1. Forschungsinstitut fur Pharmazie und Biochemie, Prag.
(Alkaloids) (Hypotension)
(Alicyclic compounds) (Reserpine)

HNEVSOVA, V.; ERNEST, I.

lebelins

Synthesis experiments in the series of lelobine alkaloids; synthesis and reactions of 2-styryl-6-butenylpyridine. Coll Cz chem 25 no.3: 748-755 Mr 160. (EEAI 9:12)

1. Institut fur organische Chemie, Technische Hochschule fur Chemie, Prag.

(Alkaloids) (Lelobine) (Butenylstilbazole)

HNEVSOVA, V.; ERNEST, I.

Addition of metallo-organic compounds to unsaturated pyridine bases. Coll Cz Chem 25 no.5:1468-1474 My '60.

1. Institut fur organische Caemie, Technische Hochschule fur Chemie, Prag. 2. Jetzige Adresse: Forschungsinstitut fur Pharmazie und Biochemie, Prag (for Ernest).

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